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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,833	09/17/2003	Kenichi Manabe	03500.017680.	2698
5514 7590 01/28/2011 FITZPATRICK CELLA HARPER & SCINTO 1290 Avenue of the Americas NEW YORK, NY 10104-3800			EXAMINER	
			MCCOMMAS, BRENDAN N	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/663,833	MANABE ET AL.
Office Action Summary	Examiner	Art Unit
	BRENDAN MCCOMMAS	2625
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>22 S</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the second secon	s action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) ☑ Claim(s) 1-3,6-12 and 15-17 is/are pending in 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-3,6-12 and 15-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is constant.	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage
Attachment(s)	_	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summal Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/22/2010 has been entered.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. **Claims 1 is** rejected under 35 U.S.C. 103(a) as being unpatentable over Tobinaga Hideki (Japanese Patent Publication 11-143139) hereinafter referenced as Hideki, in view of Harris et al. (United States Patent 6,019,532) hereinafter referenced as Harris further in view of Hirabayashi et al. (United States Patent Publication 2003/0002908) hereinafter referenced as Hirabayashi.
- 3. **Regarding claim 1**, Hideki discloses a sheet feeding apparatus comprising:
- 4. a sheet supporting portion on which a sheet is placed (Figure 1, item 4, where the manuscript tray is considered a sheet supporting portion; also see [0014]);

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5. a feeding member configured, to feed out the sheet placed on said sheetsupporting portion. (Figure 1, where pickup roller 10 is the feeding means which is positioned above the sheet supporting means 4);

- 9. an cover having a guide member configured to guide the sheet fed out by said feeding member, and forms a feeding path, as disclosed in [0051]-[0054], [0082]-[0083] and exhibited in figure 1.
- 10. a regulating portion, provided between said separation portion and said feeding means (Figure 1, item 14, and also known as the stopper claw) and being movable between a regulating position in which said regulating member regulates movement of the sheet between said sheet supporting portion said separating portion and retracted position in which said regulating member does not hamper the feeding of the sheet. (also see [0015]); a link member (42a and 40 the combination)positioned to regulate an edge of the sheet placed on the sheet supporting portion, as disclosed in [0057]-[0059], and exhibited in figures 3 and 5;
- 2. However Hideki fails to explicitly disclose wherein an interlocking mechanism is used to interlock the regulating portion with an opening operation of the cover wherein when the cover is opened, said regulating portion mounted on the cover is moved relative to the cover and that the interlocking mechanism move in a retracting direction from the feeding path in association with the opening operation of the cover. However it would have obvious to one of ordinary skill in the art at the time of the invention to include such a modification to the invention of Hideki, as taught by Harris.

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3. In a similar field of endeavor Harris discloses a device wherein an interlocking mechanism is used to interlock the regulating portion with an opening operation of the cover wherein when the openable and closable cover is opened, said regulating portion mounted on the openable and closable cover is moved relative to the cover, As disclosed in column 2, lines 11-21 and that the interlocking mechanism move in a retracting direction from the feeding path in association with the opening operation of the cover as disclosed in column 3, lines 11-17

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4. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include in the sheet feeding apparatus of Hideki, a regulating member which is moved by the opening of the cover wherein the link member is moved by the cover for the purpose of stopping paper jams, the device could be interfaced to another scanner/copier or fax machine and the feeder device may perform stable feeding, as disclosed in Harris column 1, lines 46-65. However Harris and Hideki fail to disclose that the regulating portion move relative to the cover in a retracting direction from the feeding path in association with the opening operation of the cover. However it would have been obvious to one of ordinary skill in the art at the time of the invention to include such a modification to the invention as taught by Hirabayashi. In a similar field of endeavor Hirabayshi discloses that the regulating portion move relative to the cover in a retracting direction from the feeding path in association with the opening operation of the cover as disclosed in [0004]-[0008]. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include such a mechanism to

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remove the print rollers from obstructing the path in order to clear a paper jam as disclosed in [0002]-[0008].

- 5. Claims 2-3, 6-12 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tobinaga Hideki (Japanese Patent Publication 11-143139) hereinafter referenced as Hideki, in view of Harris et al. (United States Patent 6,019,532) hereinafter referenced as Harris, further in view of Hirabayashi et al. (United States Patent Publication 2003/0002908) hereinafter referenced as Hirabayashi. further in view of Kayzuki (Japanese Patent Publication 2002-220122).
- 1. **Regarding claim 2**, Hideki, Hirabayashi and Harris disclose everything claimed as applied above (see claim 1), in addition Hideki discloses an apparatus wherein said link member comprises a first link member movable in operative association with the movement of said holding member, and a second link member movable in operative association with the movement of said first link member to thereby move said regulating member to said regulating position or said retracted position, and wherein a first link member (40) with a cam shape moves against a second link member (42a) where an amount of movement of said regulating member is varied by the cam shape. (see Figures 3 and 7, and [0026]-[0027]). In addition Hideki discloses wherein the regulating portion comprises a regulating member a link member connected between the holding member and the regulating member, the link member being moved by the holding member to move the regulating member, as disclosed in [0057]-[0059] and claim 1. (see Figures 3 and 7, and [0026]-[0027]).

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11. **Regarding claim 3,** Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claim 2), in addition Hideki discloses an apparatus wherein the cam shape is such a shape that H>h, where H is the amount of movement of the regulating member until the feeding member protrudes downwardly from the guide member through the holding member when the feeding member feeds out the sheet, and h is the amount of movement of the regulating member after the feeding member has protruded downwardly from the guide member, as disclosed in [0026]. In addition Hideki discloses a pickup driving member (33), which rotates centering on a driving shaft (34), and a cam will push up on the pickup roller (10) through the rocking member (35) and will move the pickup roller in order to ensure that the pickup roller and the stopper claw are set at a correct height (H>h), and reads on claimed "guide member", as disclosed in [0061], and exhibited in figure 3.

- 16. **Regarding claim 6**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claim 5), in addition Hideki discloses a guide member 11 which is provided above the original supporting portion and below the feeding member located at the feeding stop position as disclosed in and exhibited in figure 1. In addition claim 6 is further interpreted and thus rejected for the reasons set forth above in the rejection of claim 3.
- 17. **Regarding claim 7**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claim 6), in addition Hideki discloses a closing motion covering (103), which can open and close and is formed with the separation/feeding

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means and reads on claimed "openable and closable cover," as disclosed in [0051-0052] and exhibited in figure 1.

- 18. **Regarding claim 8**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claim 7), in addition Hideki discloses a spring (43) which restrains the gearing (23) and reads on claimed, "restraining portion", as disclosed in [0027] and figures 3-4.
- 19. **Regarding claim 9**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (seem claim 8), in addition Hideki discloses that the closing motion covering (103) opens on top of the separating portion (12) and reads on claimed "openable and closable cover," as disclosed in [0051-0052] and figure 1.
- 20. **Regarding claim 10** Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claims 4-9), in addition Hideki discloses an image forming portion for forming an image on the basis of image information read by said image reading means, as disclosed in [0001].
- 21. **Regarding claim 11**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (seem claim 4), in addition Hideki discloses the apparatus wherein the link member (42a and 40) or the holding member 33a is provided with a second cam shape, wherein the guide member is provided above the original supporting portion 4 and below a position of the feeding member 10 when the holding member is located at the feeding stop position (the claw is up) as exhibited in figure 1, wherein the second cam shape is such a shape that an amount of movement of the regulating member (the claw) with respect to the amount of movement of the holding

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member 33 until the feeding member is protruded downwardly from the guide member when the feeding member feeds out the original is larger than an amount of movement of the regulating member (14) with respect to an amount of movement of the holding member 33 after the feeding member is protruded downwardly from the guide member as exhibited in figure 3.

- 21. **Regarding claim 12**, Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (seem claim 4), in addition Hideki discloses an apparatus wherein the holding member and the regulating member are provided on the openable and closable cover; and wherein the holding member is moved with respect to the openable and closable cover so that the relative positions of the openable and closable cover and the holding member are changed, and the link member acts on the openable and closable cover so that the regulating member is moved to the retracted position by the movement of the holding member with respect to the openable and closable cover in association with the opening operation of the openable and closable cover as disclosed in [0051]-[0055] and exhibited in figure 1.
- 6. **Regarding claim 13,** Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (see claim 1) In addition Hideki discloses a sheet feeding apparatus comprising: a sheet supporting portion on which a sheet is placed (Figure 1, item 4, where the manuscript tray is considered a sheet supporting portion; also see [0014]); a feeding member disposed, above said sheet-supporting portion, for feeding out the sheet. (Figure 1, where pickup roller 10 is the feeding means which is positioned above the sheet supporting means 4); a separating portion for separating the sheet fed

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out by said feeding member and feeding the sheet one by one (Figure 1, items 11-12); an openable and closable cover having a guide member for guiding the sheet fed out by said feeding member, as disclosed in [0051]-[0054], [0082]-[0083] and exhibited in figure 1; a regulating member provided between said separation portion and said feeding means (Figure 1, item 14, and also known as the stopper claw) and being movable between a regulating position in which said regulating member regulates movement of the sheet between said sheet supporting portion said separating portion and retracted position in which said regulating member does not hamper the feeding of the sheet. (also see [0015]); and a link member (42a and 40 the combination) which is moved by a manual opening movement of the openable and closable cover to move the regulating member to the retracted position when the holding member moves the feeding member to the feeding position and the link member is moved by the holding member to move the regulating member to the regulating position when the holding member is moved to the feeding stop position, as disclosed in [0057]-[0059], and exhibited in figures 3 and 5;

- 7. However Hideki fails to explicitly disclose that the regulating member is moved by the opening of the cover wherein the link member is manually moved by the opening movement of the openable and closable cover. However it would have obvious to one of ordinary skill in the art at the time of the invention to include such a modification to the invention of Hideki, as taught by Kazyuki.
- 8. In a similar field of endeavor Kazyuki discloses a device wherein the regulating member 21 is moved by the opening of the cover wherein the link member 22 is

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manually moved in accordance with the cover, as disclosed in [0020], [0027] and exhibited in figure 4.

- 9. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include in the sheet feeding apparatus of Hideki, a regulating member which is moved by the opening of the cover wherein the link member is moved by the cover for the purpose of stopping paper jams, the device could be interfaced to another scanner/copier or fax machine and the feeder device may perform stable feeding, as disclosed in Kayuki [0002] and [0027].
- 10. **Regarding claim 14,** Hideki, Harris Hirabayashi and Kayzuki disclose everything claimed as applied above (seem claim 13), in addition claim Hideki discloses that the link member and regulating member are mounted on the cover, and that the link member is move in respect to the opening and closing of the cover, so that the regulating member is moved as well. (being instructed by the controller), as disclosed in [0051]-[0054], [0082]-[0083].
- 11. **Regarding claim 15,** Hideki, Harris Hirabayashi and Kayzuki disclose everything claimed as applied above (seem claim 13), in addition Hideki discloses that the device is connected to an image reading unit to read an image of an original and where the image reading unit (in the copier) reads the image of the original fed by the sheet feeding apparatus, as disclosed in [0002].
- 12. **Regarding claims 16-17,** Hideki, Hirabayashi Harris and Kayzuki disclose everything claimed as applied above (seem claim 1-3, 6-12 and 15). Further Harris discloses wherein the regulating portion is movable between a regulating position, in

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which said regulating portion regulates movement of the sheet between said sheet supporting portion and said separating portion, and a retracted position in which said regulating portion does not hamper the feeding of the sheet, as disclosed in column 1, lines 11-25

- 13. wherein the interlocking mechanism has a holding member configured to hold the feeding member for rotation, said holding member being movable between a feeding position in which said feeding member is in contact with the sheet supported by the sheet supporting portion and a feeding stop position in which said feeding member is out of contact with the sheet, as exhibited in figure 2,
- 14. wherein when said holding member moves from the feeding stop position to the feeding position, said holding member moves said regulating portion from the regulating position to the retracted position, and
- 15. wherein when said cover is opened, said regulating portion mounted on the cover is brought into contact with said holding member so that said regulating portion is moved with respect to said cover in a retracting direction from a feeding path, the feeding path being formed by the guide member, as disclosed in column 3, lines 61-64 and column 4, lines 1-25. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include in the sheet feeding apparatus of Hideki, a regulating member which is moved by the opening of the cover wherein the link member is moved by the cover for the purpose of stopping paper jams, the device could be interfaced to another scanner/copier or fax machine and the feeder device may perform stable feeding, as disclosed in Harris column 1, lines 46-65.

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16. In addition claims 16-17 are rejected for similar reasons as set forth above in the rejection of claims 1-3, 6-12 and 15. Claims 16-17 disclose a similar sheet feeding apparatus as disclosed in claims 1-3, 6-12 and 15. Thus claims 16-17 are rejected.

Response to Arguments

22. Applicant's arguments filed 09/22/2010 have been fully considered but they are Moot on the new grounds of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRENDAN MCCOMMAS whose telephone number is (571)270-3575. The examiner can normally be reached on IFP.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached on (571)272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ Brendan N. MCCommas/ Examiner, Art Unit 2625

/B. M./ Examiner, Art Unit 2625

/Twyler L. Haskins/ Supervisory Patent Examiner, Art Unit 2625